

A kaolinite clay firing to cream-white containing approximately 32% Al₂O₃. The fat binding clay with low pit moisture features high unfired strength and a wide vitrification range making it especially suitable for refractories and all kinds of plastically shaped ceramics. In particular cases this clay also has advantageous effects on bodies for fine fireclay sanitary ware and for dry pressing of tiles.

CLAY GF

Chemical analysis calcined [%]	SiO ₂	61,2	
	Al ₂ O ₃	32,5	
	TiO ₂	1,62	
	Fe ₂ O ₃	1,65	
	CaO	0,46	
	MgO	0,54	
	K ₂ O	0,88	
	Na ₂ O	0,12	
Loss on ignition [%]		10,3	
Mineralogical Composition [%]	Kaolinit	61,2	
	Illit	10,4	
	Quarz	26,3	
Particle size distribution [%]	> 63 µm	0,9	
	20-63 µm	2,3	
	6,3-20 µm	9,4	
	2-6,3 µm	19,4	
	< 2 µm	68,0	
Dry bending strength [N/mm ²]		6,5	
Drying shrinkage [%]		6,6	
Firing shrinkage [%]	1000°C	2,7	
	1100°C	5,9	
	1200°C	7,7	
Water absorbtion [%]	1000°C	11,3	
	1100°C	4,8	
	1200°C	0,9	
Coefficient of expansion α [×10 ⁻⁶ K ⁻¹]	pre fired 1070°C	20-500°C	5,4
		20-600°C	6,2
Coefficient of expansion α [×10 ⁻⁶ K ⁻¹]	pre fired 1230°C	20-500°C	8,9
		20-600°C	8,7
Refractoriness	1700°C	SK 31	
Firing colour		creamwhite	

Available: • raw lumpy • shredded • directly ground • dry ground up to < 63 µm

The quoted data are mean values. Sale is by sample and according to our terms of delivery.